## BRITISH CORROSION JOURNAL

1997 Volume 32

Managing Editor

Mary Chim

Consulting Editor

Paul McIntyre

Published by:

The Institute of Materials, 1 Carlton House Terrace, London SW1Y 5DB

## **British Corrosion Journal**

## **Annual contents 1997**

Marti Franqués Medal address Corrosion problems in small and medium sized enterprises: a challenge for the corrosion	
community           E. Heitz	35
E. Heitz  Local strain rate at crack tip: implications in stress corrosion cracking  J. Toribio	4
Use of electrochemical impedance spectroscopy for study of CO <sub>2</sub> corrosion prevention by batch treatment inhibitor films S. Bailey, Y. J. Tan, and B. Kinsella	4!
Early stages of dezincification of α brass immersed in 4%NaCl solution A. A. El Warraky	5
Corrosion behaviour of 8090–T851 Al–Li alloy and aluminium in pH 2 solution containing cupric ions K. S. N. Murthy, S. Subramanian, and E. S. Dwarakadasa	6.
Pitting corrosion behaviour of UNS N08904 stainless steel in chloride-sulphide solutions E. A. Abd El Meguid, N. A. Mahmoud, and V. K. Gouda	68
Technical note Influence of molecular structure of substituted benzothiazoles on corrosion inhibition and hydrogen permeation through mild steel in sulphuric acid	
M. A. Quraishi, M. A. Wajid Khan, M. Ajmal, S. Muralidharan, and S. Venkatakrishna lyer	7:
F. Elshawesh, M. El Agaili, and A. Elwaer  Correlation model of aluminium pitting potential variation with environmental conditions	7'
M. Ergun, M. Balbaşi, and A. Tosun .  Electrochemical behaviour of binary Al-Ga and ternary Al-Zn-Ga alloys as function of thermodynamic properties	11'
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud, and A. Sebaoun  Electrochemical polarisation and passive film of austenitic Fe-Mn-Cr-Al alloy in aqueous solution	12
X. M. Zhu and Y. S. Zhang .  Corrosion behaviour of mild steel in moderately alkaline to acidic simulated cooling water containing molybdate and nitrite	12'
C. M. Mustafa and S. M. Shahinoor Islam Dulal	13:
Influence of water uptake on corrosion protection properties of fluoropolymer coatings	13
F. Deflorian, L. Fedrezzi, and P. L. Bonora	14:
H. Malik  **Coating technology update New generation of polymer lining systems for cargo tanks	15
D. J. Keehan	17
G. K. Glass and N. R. Buenfeld	17
C. M. Younes, F. H. Morrissey, G. C. Allen, and P. McIntyre	18
G. Rondelli, B. Vicentini, and A. Cigada	19.
A. Neville and T. Hodgkiess	19
Yufeng Cheng and Yuanlong Du	20
Yu. I. Kuznetsov, N. P. Andreeva, S. S. Veselyi, and S. V. Oleinik  Monitoring batch treatment inhibitor performance continuously using electrochemical noise analysis	20
Y. J. Tan, B. Kinsella, and S. Bailey	21
S. A. Garrett, D. A. Rice, J. R. Rogers, and C. J. E. Smith	21
M. I. E. Coward, B. D. Barker, G. A. Mills, and A. M. Jones  Stress corrosion monitoring of 7000 series aluminium alloy welded specimens using acoustic emission	22
B. Knowlton, A. M. Siddiqui, and S. Jihan  Pit formation and growth in sea water on Al-Li 8090 alloy after different heat treatments	24
P. Traverso and A. M. Beccaria	25
E. Aragon, L. Cazenave-Vergez, E. Lanza, A. Giroud, and A. Sebaoun	26
S. Nesic, G. T. Solvi, and S. Skjerve	26
A. Neville, T. Hodgkiess, and A. P. Morizot Implications of internal cathodic reactions for crevice attack of stainless steels in chloride environments	27
A. Turnbull.  Pitting corrosion of stainless steels in acidic environment	28
J. Alhajji Inhibition of steel corrosion by some new triazole derivatives in boiling hydrochloric acid	29
M. A. Quraishi, S. Ahmad, and M. Q. Ansari	29
T. Du, Ch. Cao, J. Yu, and H. Lin	30
Bengough Award	28, 173, 24
Conductive coramic composites for avidising and corrective electropleting applications	

## Conference reports Successful applications of corrosion monitoring Eurocorr '96 Recent advances in corrosion fatigue 30 32 110 3rd Marine Corrosion Forum 114 38th Corrosion Science Symposium . 171 Eurocorr '97 . Corrosion news and views. 1, 81, 153, 225 Degradation of materials in aggressive environments . 156 20, 103, 164, 234 Forthcoming corrosion events . . . Institute of Materials appoints new Chief Executive . New IoM President . 82 Obituary F. Wormwell . Sandvik offers bimetallic answer to process tubing corrosion . 169 26, 115, 170, 238